

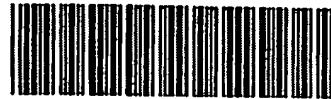
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RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/518,751
Source: PCT
Date Processed by STIC: 1-21-05

ENTERED



PCI

RAW SEQUENCE LISTING DATE: 01/21/2005
PATENT APPLICATION: US/10/518,751 TIME: 17:28:31

Input Set : D:\00358JHU.SEQ SEQUENCE LISTING.TXT
Output Set: N:\CRF4\01212005\J518751.raw

4 <110> APPLICANT: St. Croix, Brad
5 Kinzler, Kenneth W.
6 Vogelstein, Bert
8 <120> TITLE OF INVENTION: MEMBRANE ASSOCIATED TUMOR ENDOTHELIUM
9 MARKERS
11 <130> FILE REFERENCE: 001107.00358
<--> 13 <140> CURRENT APPLICATION NUMBER: US/10/518,751
<--> 13 <141> CURRENT FILING DATE: 2004-12-21
13 <150> PRIOR APPLICATION NUMBER: 60/390,187
14 <151> PRIOR FILING DATE: 2002-06-21
16 <160> NUMBER OF SEQ ID NOS: 10
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1909
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
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28 tctactgtat gaattatgct ttaagtagaa ttcaatgcac aggagaactt ggtgaaataa 180
29 attattttaa tttttttttt atcccttaca aagccatgga ttttatttgg ttgatgtgt 240
30 ctctgtacac aagccatttc aataggatgg agctgttaat tattttccaa agagtaatag 300
31 acatgcaaaa gtttcaataaa aaactggggc attaacaat aaattaataa actaataaagc 360
32 atcccccttctt aggttttgc caaactgcctt atccaataaac aaatttgaga atcggtt 420
33 aagcttagta tatttcagag aaatgatttt cattattgaa actgttctcc ctgcaggcc 480
34 attttccctt tttccctgggaa gtttagcaag ttttaggagag aatagtcatg aaaagaaaagg 540
35 gaagaaaaggg gagaaggaa gaggttaaaa agtaagtgtt cagacctatg aacgtaatcc 600
36 ctttgcataa aatatttaag agcagctcag cttgggttgcactgatgtttt gtcatctcc 660
37 atatttgcag gaagtttattt tctgacttgc aatgcagctt gatgtaaaat ttttattttat 720
38 catcctagaa agccttgact agaaaaatga ataaatatttggggtttccctt gtcccatatct 780
39 gggttgcataa tgccagaaag cagagaatag aaaatgtat ctccacatc caagcatcga 840
40 aacccaaggg gttagcaattt ctatgttaggt tttggacatg aagtttgggtt catcttgggtt 900
41 tatgctggct caactgttat taaaaccttc tggctttagt tcttttcattt ctattagaca 960
42 agcacgtatc gaacacttgc ttgcacaaag gctcttttagt taacaatttgcagctactg 1020
43 tttgtgttaa acacactttt caccataatag gttctgaggc aaacgagagc aatgactatt 1080
44 taaaagaaaagg ctttcccttgcataacttaca catccaaaaa cttaaaagat caactctcc 1140
45 aactgagaaaa agactctgg ctttgaatgg aaacttacag cagagatca caggccacgg 1200
46 caacaacaac gacaacaaca aacatttggaa atattatttctt caactcacgt tttataata 1260
47 catcttaattt atttttcttag tagagaaactt acaaattcagc ctcttcaaca tttatataca 1320
48 gtttataatag cctcttgcattt gttacttggt ctctcacctg aggttattttt ttcctccca 1380
49 ctttgcctt gttacttggt ctcttgcattt ctttgcattt gggaaatattttaacatattt 1440
50 gggtccaaact tcaataatgtt aataatataat acattaaaag catttaactt ctttcttgcata 1500
51 aaaatgcaca ggtcaaggca tagacaaaac aaagagaaaat gtttgcacttgg 1560

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106	aagttagttc	gggtcttcat	gcttgagtag	agtgaagagg	ggagcacgtg	ccccctgcat	1380										
107	ccattcttc	tttctcttga	tgacgcagct	gtcatttggc	tgtgcgtct	gacagttttg	1440										
108	caacaggcag	agctgtgtcg	cacagcagtg	ctgtgcgtca	gagccagctg	aggacaggct	1500										
109	tgcctggact	tctgttaagat	aggattttct	gtgtttcctg	aattttttat	atggtgattt	1560										
110	gtattnaat	ttaagactt	tattnctca	ctatgggtt	accttataaa	tgtattncaa	1620										
111	agttaaat	attnaaata	ttgttggga	ggcatagtc	tgacatataat	tcaagagtgtt	1680										
112	gtattnaa	ggttagcgtg	acttcagttt	tgactaagg	tgacactaat	tgttagctgt	1740										
113	tttggaaat	tatataatata	aatatataaa	aatatataaa	tatatgccag	tcttggctga	1800										
114	aatgtttat	ttaccatagt	tttataatctg	tgtgggttt	tgtaccggca	cgggatatgg	1860										
115	aacgaaaact	gctttgtaat	gcagttgtg	acattaatag	tattgtaaag	ttacattttt	1920										
116	aaataaaacaa	aaaactgttc	tggactgcaa	atctgcacac	acaacgaaca	gttcatttc	1980										
117	agagagttct	ctcaatttgt	aagttatttt	tttttaataa	agattttgt	ttccaaaaaaaa	2040										
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122	<212>	TYPE:	PRT														
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127	1				5			10			15						
128	Ile	Ser	Trp	Pro	Cys	Asn	Ser	Ser	Asp	Cys	Ile	Val	Val	Asp	Thr	Val	
129					20			25			30						
130	Met	Cys	Pro	Asn	Met	Pro	Asn	Lys	Ser	Val	Leu	Leu	Tyr	Thr	Leu	Ser	
131					35			40			45						
132	Phe	Ile	Tyr	Ile	Phe	Ile	Phe	Val	Ile	Gly	Met	Ile	Ala	Asn	Ser	Val	
133					50			55			60						
134	Val	Val	Trp	Val	Asn	Ile	Gln	Ala	Lys	Thr	Thr	Gly	Tyr	Asp	Thr	His	
135					65			70			75			80			
136	Cys	Tyr	Ile	Leu	Asn	Leu	Ala	Ile	Ala	Asp	Leu	Trp	Val	Val	Leu	Thr	
137					85			90			95						
138	Ile	Pro	Val	Trp	Val	Val	Ser	Leu	Val	Gln	His	Asn	Gln	Trp	Pro	Met	
139					100			105			110						
140	Gly	Glu	Leu	Thr	Cys	Lys	Val	Thr	His	Leu	Ile	Phe	Ser	Ile	Asn	Leu	
141					115			120			125						
142	Phe	Gly	Ser	Ile	Phe	Phe	Leu	Thr	Cys	Met	Ser	Val	Asp	Arg	Tyr	Leu	
143					130			135			140						
144	Ser	Ile	Thr	Tyr	Phe	Thr	Asn	Thr	Pro	Ser	Ser	Arg	Lys	Lys	Met	Val	
145					145			150			155			160			
146	Arg	Arg	Val	Val	Cys	Ile	Leu	Val	Trp	Leu	Leu	Ala	Phe	Cys	Val	Ser	
147					165			170			175						
148	Leu	Pro	Asp	Thr	Tyr	Tyr	Leu	Lys	Thr	Val	Thr	Ser	Ala	Ser	Asn	Asn	
149					180			185			190						
150	Glu	Thr	Tyr	Cys	Arg	Ser	Phe	Tyr	Pro	Glu	His	Ser	Ile	Lys	Glu	Trp	
151					195			200			205						
152	Leu	Ile	Gly	Met	Glu	Leu	Val	Ser	Val	Val	Leu	Gly	Phe	Ala	Val	Pro	
153					210			215			220						
154	Phe	Ser	Ile	Ile	Ala	Val	Phe	Tyr	Phe	Leu	Leu	Ala	Arg	Ala	Ile	Ser	
155					225			230			235			240			
156	Ala	Ser	Ser	Asp	Gln	Glu	Lys	His	Ser	Ser	Arg	Lys	Ile	Ile	Phe	Ser	

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159	260	265	270
160	Leu Leu Asp Ile Phe Ser Ile Leu His Tyr Ile Pro Phe Thr Cys Arg		
161	275	280	285
162	Leu Glu His Ala Leu Phe Thr Ala Leu His Val Thr Gln Cys Leu Ser		
163	290	295	300
164	Leu Val His Cys Cys Val Asn Pro Val Leu Tyr Ser Phe Ile Asn Arg		
165	305	310	315
166	Asn Tyr Arg Tyr Glu Leu Met Lys Ala Phe Ile Phe Lys Tyr Ser Ala		
167	325	330	335
168	Lys Thr Gly Leu Thr Lys Leu Ile Asp Ala Ser Arg Val Ser Glu Thr		
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171	355	360	
173	<210> SEQ ID NO: 5		
174	<211> LENGTH: 4286		
175	<212> TYPE: DNA		
176	<213> ORGANISM: Homo sapiens		
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181	aggatcaaca cagtggctga acactggaa ggaactggta cttggagctt ggacatctga		180
182	aacttggctc taaaaactgcg cagggccac cggacgcctt ctggagcagg tagcagcatt		240
183	cageggcetc caagtctgtg cggacgcgccc ctgggtgcgc tggatcctga gagcaactccc		300
184	tcgcggatct ggggagagga gagaggttcc cgcgttgcaca gggcaactcc gtttttgc当地		360
185	accgcagaga taatgcaccc acccaactaa acctttatgc当地 ccaagggttcc caacgc当地		420
186	ctggcggctt cttgggacc tggggggatggc cttaaaggag acaggacggc aggtatccg		480
187	ccacgaccca ttttttttttcc ctttttttttcc gggatccttgc agatcaaggag gtttttgc当地		540
188	tacatcaaca cgggtgttgc ctgccttgc当地 ttcgttgc当地 ggatcatcg当地 gaaatccaca		600
189	cttctggatcc ttatctacaa gaacaagtgc atgc当地aaatcc ctttttttttgc当地		660
190	agcttggctt tggggggatggc ctttttttttgc当地 gtttttttttgc当地		720
191	ctgtggcag aggactggcc atttggagct gagatgttgc当地 agcttggtgc当地		780
192	aaaggccctcc tggggatcc ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		840
193	gcttttttttgc当地 ttttttttttgc当地 attttttttgc当地 ctttttttttgc当地		900
194	atttttttttgc当地 ttttttttttgc当地 ctgtggcag aggactggcc attttttttttgc当地		960
195	ataatttttttgc当地 ttttttttttgc当地 ctgtggcag aggactggcc attttttttttgc当地		1020
196	aagacagctt ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1080
197	ttctgttgc当地 ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1140
198	agaaagaaaaa ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1200
199	gccccccccc ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1260
200	agcaggatttcc ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1320
201	agcttttttttgc当地 ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1380
202	aacccaaatttgc当地 ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1440
203	tgtgtgttgc当地 ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1500
204	aaggccaaatttgc当地 ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1560
205	tcttggatcc ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1620
206	aacccaaatttgc当地 ttttttttttgc当地 ctatgttgc当地 tgatgttgc当地		1680
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VERIFICATION SUMMARY
PATENT APPLICATION: US/10/518,751

DATE: 01/21/2005
TIME: 17:28:32

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Output Set: N:\CRF4\01212005\J518751.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date